

Claims

- [c1] What is claimed is:
1. A semi permanent iron sight adapted for attachment to, and detachment from a weapon, by providing a clearance for one or more devices to be secured to the weapon, comprising:
 - a base formed of two vertical rails and an interconnecting member that allows the base to flex for securing the iron sight on the weapon;
 - a sight aperture assembly formed of a sight aperture, a sight aperture frame, a sight aperture spring, and a sight aperture pivot pin;
 - an elevation cam assembly formed of an elevation cam, a retaining clip, an elevation cam spring and keeper, and a detent spring and a ball detent; and
 - a windage mechanism,wherein the base provides a mounting interface for the sight aperture assembly, elevation cam assembly, and windage mechanism.
 - [c2] 2. The iron sight of claim 1, further comprising an elevation adjustment mechanism with an elevation scale.
 - [c3] 3. The iron sight of claim 2, wherein the elevation adjustment mechanism includes a cam mechanism that has a limited range of rotation to preclude inadvertent over rotation.
 - [c4] 4. The iron sight of claim 1, wherein the elevation cam assembly includes a knob.
 - [c5] 5. The iron sight of claim 1, wherein the base includes a curved flange with range markings.
 - [c6] 6. The iron sight of claim 5, wherein the base further includes stop surfaces that limit an allowable rotation of the elevation cam assembly.
 - [c7] 7. The iron sight of claim 6, wherein the base further includes a recoil screw that is assembled through two holes in two opposed mounting interfaces, to firmly attach the iron sight to the weapon.
 - [c8] 8. The iron sight of claim 1, wherein the windage mechanism comprises a

windage knob.

- [c9] 9. The iron sight of claim 1, wherein the sight aperture spring is a torsion spring held in assembly by a sight aperture pivot pin.
- [c10] 10. The iron sight of claim 9, wherein the sight aperture functions between the sight aperture and the sight aperture frame to hold the sight aperture upright.
- [c11] 11. The iron sight of claim 8, wherein the windage mechanism further comprises a windage screw, a windage detent ball and spring assembly, and a windage knob retaining pin.
- [c12] 12. The iron sight of claim 11, wherein the windage screw is assembled through mounting holes in the base.
- [c13] 13. The iron sight of claim 12, wherein the windage detent ball and spring assembly is secured to the windage knob, to index rotation of the windage knob.